

DP-305008

EVAPORATIVE SOLENOID CONTROL VALVE  
WITH ENHANCED DURABILITY FEATURES

## ABSTRACT

[0023]

An evaporative solenoid valve assembly for use in a vehicle fuel system between a filtration canister and an intake manifold includes a plunger having a plunger body with central-bore and an elastomeric insert molded therein to define a stop cushion at the end of the insert proximal the valve stop and a valve tip at the end of the insert proximal the valve seat. The valve assembly may include a valve stop having a non-conducting insert received in an end proximal the plunger to reduce noise and wear as well as to improve magnetic flux path. Yet another improvement includes an enlarged pre-load spring disposed within the plunger to provide better spring force distribution and plunger to valve seat alignment.

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